



Token



Badge printer

# access



Fingerprint



Smartphone



Wireless



Iris



# Identity Access



Base Part Number = IA-STD

Feature

	NO LICENCE	PROFESSIONAL LICENCE	ENTERPRISE LICENCE
Up to 24 Doors / Readers	✓	✓	SUB-ENT-24
Up to 50 Doors / Readers	✗	✓	SUB-ENT-50
Unlimited Number of Doors / Readers	✗	✓	SUB-ENT-OPEN
Perpetual License Period	✓	IA-PRO	✗
Annual License Renewal	✗	SUB-PRO	✓
Microsoft SQL Express 2014 Database Platform	✓	✓	✓
Compatible with Windows 10 (x64), Server 2012 / 2016	✓	✓	✓
Unlimited Number of PCs	✓	✓	✓
Unlimited Number of Cardholders	✓	✓	✓
Real Time Access and Alarms Events Viewers	✓	✓	✓
Employee, Visitor and Contractor Management	✓	✓	✓
Group Time Zones	✓	✓	✓
Controller, Door and Report Wizards	✓	✓	✓
Door Open Time Zones with Snow Day Rule	✓	✓	✓
Issue Temporary Cards	✓	✓	✓
Multiple Sites	✓	✓	✓
Display User's Photo on Card Swipe	✓	✓	✓
Users On / Off Site Counter	✓	✓	✓

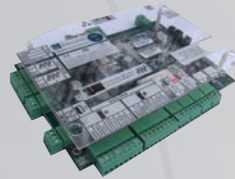
Feature

	NO LICENCE	PROFESSIONAL LICENCE	ENTERPRISE LICENCE
Operator Remote Door Control	✓	✓	✓
Configurable User Data Fields	✓	✓	✓
Group Management	✓	✓	✓
Timed PinPads	✓	✓	✓
Lockdown	✓	✓	✓
Support for HID OSDP Readers	✓	✓	✓
Support for APERIO Wireless locks	✓	✓	✓
Time Sheet Report	✗	✓	✓
Fire Alarm Roll Call Report	✗	✓	✓
Fingerprint Enrolment	✗	✓	✓
AntiPassBack	✗	✓	✓
Preconfigured Logic for Airlocks & Turnstiles	✗	✓	✓
Integrates with Morpho Fingerprint Readers	✗	✓	✓
Counters and Timers	✗	✗	✓
Programmable Inputs and Outputs	✗	✗	✓
Site Graphical Maps	✗	✗	✓
Events and Actions	✗	✗	✓
Email Notification of Events	✗	✗	✓

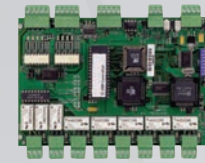
# I-Net™ Networked Access Control Units



**i-Net PLUS Door Controller**



**i-Net Door Controller**



**i-Net I/O Expansion Board**



**i-Net Wiegand to RS485 Converter**

Web Browser Interface (Read only)	Yes	Yes	No	No
TCP/IP	Yes	Yes	No	No
RS485	Yes	Yes	Yes	Yes
Power Requirements	250mA @ 12 VDC	300mA @ 12 VDC	50mA @ 12 VDC	25mA @ 12VDC
Maximum Cardholders	50,000	50,000	N/A	N/A
Maximum Event History Buffer	100,000	100,000	N/A	N/A
Maximum Schedules	63	63	N/A	N/A
Maximum Wiegand Readers	2	2	N/A	1
Maximum Controlsoft RS485 Readers	15 (Master) or 2 (Slave)	15 (Master) or 2 (Slave)	N/A	N/A
Maximum HID OSDP Readers	8	8	N/A	N/A
Maximum RS485 Slave Devices (i-Nets OR AC-1100/3151/4311/4550)	15	15	N/A	N/A
Inputs	9	5	8	N/A
Outputs	4	4	8	N/A
PCB Dimensions (mm)	175 x 135 x 25	170 x 130 x 25	160 x 120 x 15	65 x 32 x 12
<b>Warranty</b>	3 Years			
<b>PART NUMBERS</b>				
PCB Only	IA-PCB	IA-PCB-V2	AC-4311-PCB	AC-4550
Metal housing with 3A PSU	IA-ACU	IA-ACU-V2	AC-4311-PS3	N/A
Metal housing with no PSU	IA-ACB	IA-ACB-V2	AC-4311	N/A
Metal housing with 3A Smart PSU	IA-ACU-PLUS	N/A	AC-4311-PLUS	N/A
Metal housing with 3A Smart POE++	IA-ACU-POE	N/A	N/A	N/A

# HID iCLASS SE / MIFARE DESFire / Mobile (BLE/NFC) – Readers

												
	Mifare Desktop Reader	iCLASS Desktop Reader	R10	R15	R40	RK40	R90	U90 Long Range Reader	Panel Mount	Storm S40 & S40i Vandal Resistant	Storm S60 & S60i Vandal Resistant	R95A Décor Reader
Part Number	OMN-1052	OMN-5427-CK	HID-900-N	HID-910-N	HID-920-N	HID-921-N	HID-940-N	HID-U908	HID-6102	HID-S40 / HID-S40i	HID-S60 / HID-S60i	HID-95A
Output Format	USB	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
OSDP (RS485)	No	No	Optional	Optional	Optional	Optional	No	Optional	No	No	No	Optional
Mobile Access (includes OSDP)	No	No	HID-900-NM	HID-910-NM	HID-920-NM	HID-921-NM	No	No	No	No	No	N/A
Dimensions (mm)	95 x 70 x 20	95 x 70 x 20	103 x 48 x 23	153 x 48 x 23	122 x 84 x 24	122 x 85 x 28	305 x 305 x 32	231 x 231 x 70	40 x 40 x 10	100 x 119 x 43	200 x 45 x 23	87 x 87 x 21
Weight	135g	135g	90 g	90 g	250 g	285 g	1860 g	1.2Kg	115 g	400g	205g	80g
Power Requirement	USB	USB	5 – 16 VDC	5 – 16VDC	5 – 16VDC	5 – 16VDC	12 – 24 VDC	12 – 24 VDC	9 - 16 VDC	10.2 – 13.8 VDC	10.2 – 13.8 VDC	5 – 16 VDC
Current Requirement	N/A	N/A	116 mA	112 mA	121 mA	116 mA	1300 mA	400mA @ 12V	121 mA	200mA max	500mA max	60mA
Read Range (mm)			40 to 70					3 to 5 metres	40 to 70	100	100	30 to 70
Termination	N/A	N/A	Pigtail / Terminal	Pigtail / Terminal	Pigtail / Terminal	Pigtail / Terminal	Terminal	Terminal	Pigtail	Terminal	Terminal	Terminal
Tamper	N/A	N/A	Optional	Optional	Optional	Optional	Optional	Optional	No	Yes	Yes	Yes
Indoor/Outdoor	Indoor	Indoor	Both	Both	Both	Both	Both	Both	Both	Both	Both	Indoor
Colour	Black	Black	Black	Black	Black	Black	Black	Black	N/A	Black	Black	Black / White / Grey
Warranty	2 Years	2 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	2 Years	1 Year	1 Year	1 Year	Lifetime
Part Numbers (for use with MIFARE credentials on Identity Access systems)	N/A	N/A	IA-R10	IA-R15	IA-R40	IA-RK40	N/A	N/A	IA-6102	IA-S40 / IA-S40i	IA-S60 / IA-S60i	IA-R95T

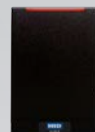
# HID multiCLASS SE / Mobile (BLE/NFC) Readers



RP10



RP15



RP40



RPK40



Storm S60M & S60Mi  
Vandal Resistant

## Additional Technologies

Controlsoft Prox, HID Prox, EM4102 and Indala Prox

HID Prox, EM4102	HID-900-P	HID-910-P	HID-920-P	HID-921-P	HID-S60M / HID-S60Mi
OSDP (RS485)	Optional				No
Mobile Access (includes OSDP)	HID-900-PM	HID-910-PM	HID-920-PM	HID-921-PM	No
HID Prox, EM4102 (for use with Identity Access systems)	IA-RP10	IA-RP15	IA-RP40	IA-RPK40	IA-S60M / IA-S60Mi

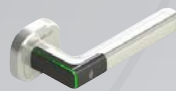
## Aperio Wireless Readers



Aperio Cylinder



Aperio Handle set



Aperio Lever Handle



Aperio Monitored  
Handle set



Wiegand 1:1 Hub



RS485 1:8 Hub

Part Number	AP-50520190-	AP-5001-	AP-H100-	AP-AL560-	AP-500-35	AP-500-40
Technology	SEOS / iCLASS / MIFARE / DESFire				N/A	N/A
Read Range (mm)	30			10	N/A	N/A
Dimensions (mm)	Euro Profile Cylinder	40 x 315 x 20	87 x 87 x 21	54 x 350 x 21	82 x 82 x 37	82 x 82 x 37
Weight	250g	1.5Kg	500g	1.7Kg	75g	75g
Power Requirements	Lithium Battery				8 – 24V dc	8 – 24V dc
Output Format	Wireless				Wiegand	RS485
Indoor/Outdoor	Indoor			Outdoor*	Indoor	Indoor
Warranty	2 years (Electronics), 1 Year (Mechanics)					

\* The L100 can be used Outdoors providing that the door opens INTO the building.












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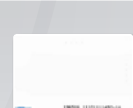
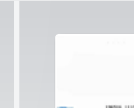


# HID iCLASS - Cards / Tags

											
	<b>iCLASS 2K (2K/2)</b>	<b>iCLASS 32k (16k/2, 16k/1)</b>	<b>iCLASS 32k (16k/1, 16k/16)</b>	<b>iCLASS 2K SE (2K/2)</b>	<b>iCLASS 32k SE (16k/2, 16k/1)</b>	<b>iCLASS 32k SE (16k/1, 16k/16)</b>	<b>HID MIFARE 1K SE</b>	<b>HID MIFARE 4K SE</b>	<b>HID DESFire 8K SE</b>	<b>iCLASS SEOS 8K</b>	<b>iCLASS SEOS 16K</b>
Clamshell	HID-2080	N/A	N/A	HID-3350	HID-3353	HID-3354	N/A	N/A	N/A	N/A	N/A
ISO	HID-2000	HID-2003	HID-2004	HID-3000	HID-3003	HID-3004	HID-3400	HID-3406	HID-3700	HID-5006	HID-5005
Keyfob	HID-2050	HID-2053	HID-2054	HID-3250	HID-3253	HID-3254	N/A	N/A	N/A	N/A	N/A
Sticker Tag	HID-2060	HID-2063	HID-2064	HID-3300	HID-3303	HID-3304	N/A	N/A	N/A	N/A	N/A
Warranty	Lifetime										

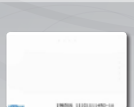
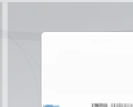
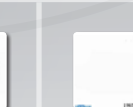
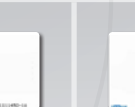
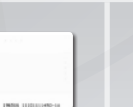

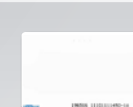
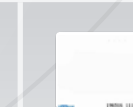
# NXP MIFARE DESFire - Cards / Tags

				
	<b>MIFARE 1K</b>	<b>MIFARE 4K</b>	<b>DESFire EV1 4K</b>	<b>DESFire EV1 8K</b>
ISO	AC-7140	AC-7141	AC-7180	AC-7181
Keyfob	AC-7145	AC-7146	AC-7185	AC-7186
Warranty	Lifetime			

# HID UHF Cards

				
	<b>UHF</b>	<b>UHF/Mifare 4K</b>	<b>UHF/iCLASS 32K (16K/2)</b>	<b>UHF/iCLASS 32K (16K/16)</b>
ISO	HID-600	HID-603	HID-6013	HID-6014
Warranty	Lifetime			

# HID Combination Cards

								
	<b>HID Prox/iCLASS 2K</b>	<b>HID Prox/iCLASS 32K</b>	<b>HID Prox/Mifare 1K</b>	<b>HID Prox/Mifare 4K</b>	<b>HID Prox/Desfire 8K</b>	<b>HID iCLASS 2K/Mifare 1K</b>	<b>HID Prox/iCLASS SEOS 8K</b>	<b>HID Prox/iCLASS SEOS 16K</b>
ISO	HID-2120	HID-2123/2124	HID-1431	HID-1441	HID-1451	HID-2320	HID-5106	HID-5105
Warranty	Lifetime							

# RX Series – Advanced Access Control Readers










Part Number	RX100	RX180	RX180+	RX1K00	RX1K80	RX1K80+	RX200	RX280	RX280+	RX300	RX380	RX380+	RX3K00	RX3K80	RX3K80+	RX400	RX480	RX480+
Controlsoft Proximity (26-bit)	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes
EM4200 Proximity (26-bit)	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes
HID Prox	Optional	No	Yes	Optional	No	Yes	Optional	No	Yes	Optional	No	Yes	Optional	No	Yes	Optional	No	Yes
MIFARE / DESFire CSN (34-bit)	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Dimensions (mm)	87 x 87 x 21			87 x 87 x 21			54 x 144 x 21			76 x 120 x 21			76 x 120 x 21			52 x 96 x 21		
Current requirements	250mA typical						250mA typical						350mA typical			250mA typical		
Power requirements	+5Vdc to +16Vdc																	
Read range (mm)	Up to 100																	
LED	Tri-colour - Blue (Normal) / Green (Access Granted) / Red (Access Denied)																	
Termination	Terminal blocks																	
Indoor / outdoor	Both																	
Colour	Black (-BK) or White (-WH)																	
Warranty	5 years																	

Compatible Cards / Tags	Controlsoft Prox	HID Prox	Mifare 1K	Mifare 4K	Desfire EV1 4K	Desfire EV1 8K
Clamshell	AC-7080	HID-1326	N/A	N/A	N/A	N/A
ISO / Photo ID style	AC-7100	HID-1386	AC-7140	AC-7141	AC-7180	AC-7181
Keyfob	AC-7101	HID-1346	AC-7145	AC-7146	AC-7185	AC-7186
Adhesive Tag	AC-7103	HID-1391	AC-7167	N/A	N/A	N/A

# Controlsoft® Proximity (125KHz) - Readers










	 <b>Desktop Reader</b>	 <b>RS485 Prox</b>	 <b>Prox Reader</b>	 <b>Vandal Prox</b>	 <b>Panel Mount Prox</b>	 <b>Mullion Reader</b>	 <b>Single Gang Reader</b>	 <b>Pin &amp; Prox Reader</b>
<b>Part Number</b>	OMN-1051	AC-1100	AC-1200	AC-1201	AC-1202	RX-400	RX-100	RX-1K00
<b>Read Range (mm)</b>	40-70	80	80	80	80	100	120	120
<b>Dimensions (mm)</b>	95 x 70 x 20	120 x 42 x 22	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	96 x 52 x 21	87 x 87 x 21	87 x 87 x 21
<b>Weight</b>	135g	150 g	150 g	800g	150 g	90g	120	125g
<b>Power Requirement</b>	USB	12Vdc	12Vdc	12Vdc	12Vdc	5 - 16Vdc	5 - 16Vdc	5 - 16Vdc
<b>Current Requirement</b>	N/A	100 mA	100 mA	100 mA	100 mA	250mA typical	250mA typical	250mA typical
<b>Termination</b>	USB Cable	Terminal Strip	Pigtail	Pigtail	Pigtail	Terminal Strip	Terminal Strip	Terminal Strip
<b>Output Format</b>	USB	RS485	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
<b>Indoor/Outdoor</b>	Indoor	Both	Both	Both	Both	Both	Both	Both
<b>Additional Technologies</b>	N/A	N/A	N/A	N/A	N/A	MIFARE (RX-480)	MIFARE (RX-180)	MIFARE (RX-1K80)
<b>Colour</b>	Black	Black or White	Black or White	Stainless Steel (316)	N/A	Black or White	Black or White	Black or White
<b>Warranty</b>	2 Years	2 Years	2 Years	2 Years	2 Years	5 Years	5 Years	5 Years

# Controlsoft® Proximity (125KHz) - Cards / Tags







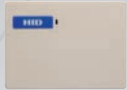
	 <b>Clamshell</b>	 <b>ISO Prox</b>	 <b>Numbered Prox</b>	 <b>ISO Mag Prox</b>	 <b>Keyfob</b>	 <b>Thin Keyfob</b>	 <b>Sticker Tag</b>
<b>Part Number</b>	AC-7080	AC-7100	AC-7110	AC-7130	AC-7101	AC-7102	AC-7103
<b>Magnetic Stripe</b>	No	No	No	Yes	No	No	No
<b>Printable</b>	No	Yes	Yes	Yes	No	No	No
<b>Slot Punch</b>	Vertical	Optional	Optional	Optional	No	No	No
<b>Warranty</b>	Lifetime						



## HID Proximity (125KHz) - Readers

									
	<b>Desktop Reader</b>	<b>ProxPoint Plus</b>	<b>MiniProx</b>	<b>Thinline II</b>	<b>ProxPro</b>	<b>ProxPro with Keypad</b>	<b>ProxPro II</b>	<b>EntryProx</b>	<b>MaxiProx</b>
<b>Part Number</b>	OMN-5427-CK	HID-6005	HID-5365	HID-5395	HID-5355	HID-5355K	HID-5455	HID-4045	HID-5375
<b>Output Format</b>	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand / Clock and Data	Standalone/Wiegand	Wiegand
<b>Read Range</b>		40 to 70 mm					205 mm	40 to 70 mm	
<b>Dimensions (mm)</b>	95 x 70 x 20	80 x 45 x 15	150 x 45 x 20	120 x 75 x 15	125 x 125 x 25	125 x 125 x 25	127 x 127 x 25.4	135 x 70 x 35	305 x 305 x 25
<b>Weight</b>	135g	100 g	225 g	210 g	275 g	275 g	275 g	335 g	1440 g
<b>Power Requirement</b>	USB	5 - 16 VDC	5 - 16 VDC	5 - 16 VDC	10 - 28.5 VDC	10 - 28.5 VDC	5 - 16 VDC	10 - 15 VDC	12 / 24 VDC
<b>Current Requirement</b>	N/A	35 mA	35 mA	35 mA	155 mA	155 mA	125 mA	150 mA	200 mA
<b>Termination</b>	N/A	Pigtail	Pigtail or Terminal Strip	Pigtail	Pigtail	Terminal Strip	Pigtail	Terminal Strip	Terminal Strip
<b>Tamper</b>	N/A	No	No	No	Switch	Switch	No	No	Switch
<b>Indoor/Outdoor</b>	Indoor	Both	Both	Both	Both	Both	Both	Both	Both
<b>Warranty</b>	2 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime

## HID Proximity (125KHz) - Card / Tags

							
	<b>ProxCard II</b>	<b>ISO Prox II</b>	<b>Duo Prox II</b>	<b>iCLASS Prox</b>	<b>Prox Key III</b>	<b>MicroProx Tag</b>	<b>ProxPass II</b>
<b>Part Number</b>	HID-1326	HID-1386	HID-1336	HID-2120	HID-1346	HID-1391	HID-1351
<b>Magnetic Stripe</b>	No	No	Yes	Optional	No	No	No
<b>Printable</b>	No	Yes	Yes	Yes	No	No	No
<b>Slot Punch</b>	Vertical	Optional	Optional	Optional	No	No	No
<b>Warranty</b>	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	1 Year






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## Other Technology - Readers

	 <b>Magstripe</b>	 <b>Magstripe</b>	 <b>Storm Keypad</b>	 <b>RF (868 MHz) Reader</b>	 <b>AWID</b>
<b>Part Number</b>	AX-5232	AX-5233	ST-DX2KW20 (Polymer) ST-DX1KT20 (Metal)	AC-1800	AW-LR-2200
<b>Output Format</b>	Clock & Data	Wiegand	Wiegand	Wiegand	Wiegand
<b>Dimensions (mm)</b>	113 x 42 x 35	113 x 42 x 35	100 x 119 x 43	116 x 44 x 22	203 x 203 x 28.6
<b>Weight</b>	300g	300g	300g	150g	1.04Kg
<b>Power Requirement</b>	5 - 16 vdc	5 - 16 vdc	5 - 12Vdc	12vdc	12Vdc
<b>Current Requirement</b>	50 mA	50 mA	250mA	200 mA	1A
<b>Termination</b>	Pigtail	Pigtail	Terminal	Pigtail	Pigtail
<b>Tamper</b>	No	No	No	No	No
<b>Indoor/Outdoor</b>	Both	Both	Both	Both	Both
<b>Warranty</b>	1 Year	1 Year	2 Years	2 Years	1 Year

## Other Technology - Credentials

	 <b>Magstripe Unencoded</b>	 <b>Magstripe Encoded</b>	 <b>2 Button Transmitter (868 MHz)</b>	 <b>4 Button Transmitter (868 MHz)</b>	 <b>AWID Windshield Tag</b>	 <b>AWID Hang Tag</b>	 <b>AWID Visor Tag</b>
<b>Part Number</b>	AC-7160	AC-7165	AC-7302	AC-7304	AW-WS	AW-HT	AW-VT
<b>Read Range</b>	N/A	N/A	Up to 20 metres	Up to 20 metres	3 to 5 meters	3 to 5 meters	3 to 5 meters
<b>Printable</b>	Yes	Yes	N/A	N/A	No	No	No
<b>Slot Punch</b>	Optional	Optional	N/A	N/A	No	No	No
<b>Warranty</b>	Lifetime	Lifetime	2 Years	2 Years	1 Year	1 Year	1 Year

## Hand / Iris Readers

	 <b>Handkey</b>	 <b>Iris</b>	 <b>Iris</b>
<b>Part Number</b>	HK-II	iCAM7101	iCAM7000
<b>Part Number with multiCLASS Reader</b>	N/A	iCAM7111	iCAM7010
<b>Users</b>	512	500 (EAC500 software)	
<b>Expansion Option</b>	9728	more than 100K with license	
<b>LCD Display</b>	No	Yes	No
<b>Onboard Relay</b>	Yes	Yes	Yes
<b>Wiegand Output</b>	Yes	Yes	Yes
<b>Outdoor Use</b>	Requires Hurricane Enclosure	No	No
<b>Dimensions (mm)</b>	223 x 296 x 217	178 x 211 x 64	178 x 211 x 64
<b>Weight</b>	2.7 KG	1.6Kg	1.6Kg
<b>Power Requirements</b>	600 mA	12 - 24Vdc 2.0A	12 - 24Vdc 2.0A
<b>Warranty</b>	1 Year	1 Year	1 Year
<b>Colour</b>	N/A	Black (B) / Titanium (T)	

# Fingerprint Readers

	 <b>MorphoSmart 1300</b>	 <b>MorphoSmart 300</b>	 <b>MorphoSmart Finger Vein</b>	 <b>Morpho Sigma Extreme</b>	 <b>Morpho Sigma</b>	 <b>Morpho Sigma Lite</b>	 <b>Morpho Sigma Lite Plus</b>	 <b>Morpho FingerVein</b>	 <b>MorphoWave Compact</b>
<b>Part Number (Bio only)</b>	SG-293670362	SG-293670375	SG-293670383	N/A	SG-293638835	SG-293678615	SG-293678657	SG-293586156	N/A
<b>Part Number with Mifare Reader</b>	N/A	N/A	N/A	SG-293701708	SG-293638877	SG-293678636	SG-293678660	SG-293585753	SG-293722301 (MIFARE / DESfire)
<b>Part Number with HID iCLASS Reader</b>	N/A	N/A	N/A	SG-293701675	SG-293638856	SG-293678628	SG-293673644	N/A	SG-293722319 (iCLASS / MIFARE / DESfire / HID Prox / EM4200)
<b>Part Number with HID Prox Reader</b>	N/A	N/A	N/A	SG-293701716	SG-293638898	SG-293673665	SG-293678678	N/A	
<b>Users - Fingerprint Only</b>	N/A	N/A	N/A	5000	3000	500	500	5,000	20,000
<b>Users - Template on card</b>	N/A	N/A	N/A	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited	Unlimited (MIFARE, DESfire and iCLASS only)
<b>Expansion Option</b>	N/A	N/A	N/A	Options for 10,000 / 50,000 / 100,000 users	Options for 10,000 / 50,000 / 100,000 users	Options for 3,000 / 10,000 users	Options for 3,000 / 10,000 users	10,000	40,000
<b>Outdoor Use / IP Rating</b>	No	No	No	IP65	IP65	IP65	IP65	IP65	IP65
<b>Identification Time</b>	<1.2 sec	<1.2 sec	<1.2 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.5 sec	<1.0 sec
<b>Dimensions (mm)</b>	70 x 40 x 15	90 x 80 x 55	55 x 85 x 133	301 x 142 x 97	153 x 151 x 58.5	156 x 68 x 62	156 x 68 x 62	90 x 160 x 125	250 x 152 x 216
<b>Weight</b>	100g	200g	200g	1.6Kg	470g	280g	280g	515g	2.2Kg
<b>Power Requirements</b>	5v / USB	5v / USB	5v / USB	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	9 - 16Vdc 1A	12 to24Vdc or PoE+
<b>Power Over Ethernet</b>	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	PoE+
<b>Onboard Relay Output</b>	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
<b>Wiegand Output</b>	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
<b>OSDP</b>	N/A	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes
<b>Warranty</b>	1 Year (warranty extension options for 2nd and 3rd year term)								

access

Controlsoft Product Reference Guide

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# HID Fargo Printers

	 <b>C50</b>	 <b>DTC1250e</b>	 <b>DTC4250e</b>	 <b>DTC4500e</b>	 <b>HDP5000</b>	 <b>HDP6600</b>	 <b>HDP8500</b>
<b>Base Part Number</b>	FG-51980	FG-50000	FG-52000	FG-55000	FG-89600	FG-94600	FG-88500
<b>Print Method</b>	Dye-sublimation / Retransfer	Dye-sublimation / Retransfer	Dye-sublimation / Retransfer	Dye sublimation / Retransfer	HDP Dye-Sublimation / Retransfer	HDP Dye-Sublimation / Resin Thermal Transfer	HDP Dye-Sublimation / Retransfer
<b>Print Speed</b>	24 seconds YMCKO single side	16 seconds YMCKO single side	16 seconds YMCKO single side	16 seconds YMCKO single side	Up to 29 seconds YMCK with transfer, single side	Up to 16 seconds YMCK with transfer, single side	Up to 29 seconds YMCK with transfer, single side
<b>Input Hopper</b>	50	100	100	200	100	100	2 x 200
<b>Output Hopper</b>	30	FG-50000: Up to 30 cards FG-50100: Up to 100 cards	100	100	200	200	200
<b>Reject Hopper</b>	N/A	N/A	100	100	N/A	N/A	N/A
<b>Double Sided</b>	No	FG-50100	FG-52100	FG-55100	FG-89640	Optional	Yes
<b>Lamination</b>	No	No	No	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional	Optional card lamination module – single-sided or dual-sided (simultaneous)
<b>Encoding Options</b>	No	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoder for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available
<b>Simultaneous Printing &amp; Encoding</b>	No	Yes	Yes	Yes	Yes	Yes	Yes
<b>Interface</b>	USB	USB Ethernet: FG-50020 / FG-50120	USB and Ethernet	USB and Ethernet	Ethernet	USB and Ethernet	Ethernet
<b>Card Sizes</b>	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80	CR-80	CR-80
<b>Printer / Printhead Warranty</b>	2 Years / 2 Years	3 Years / 3 Years	3 Years / 3 Years	3 Years / 3 Years	3 Years / Lifetime	3 Years / Lifetime	3 Years / Lifetime
<b>Card Cleaning</b>	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Replaceable Cleaning Roller	Cleaning Station x2
<b>Dimensions (mm) H x W x D</b>	224 x 348 x 201	Single-sided: 224 x 348 x 201 Dual-sided : 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234 Printer + Lam: 480 x 475 x 234	Single Sided: 292 x 311 x 235 Dual Sided: 292 x 394 x 235 Dual Sided + Lam: 324 x 762 x 235	Single Sided: 330 x 368 x 305 Dual Sided: 330 x 502 x 305	Dual Sided: 394 x 716 x 356

# HID Fargo Print Ribbons

	Images	C50	DTC1250E	DTC4250E	DTC4500E	HDP5000	HDP6600	HDP8500	Part No
<b>K</b>									
EZ Premium	1000	•	•	•	•				FG-45101
EZ Standard	1000	•	•	•	•				FG-45102
Premium	3000					•			FG-84060
Premium	3000							•	FG-84818
<b>Y M C K O</b>									
EZ	100	•							FG-45440
Eco	100	•							FG-45441
EZ	250		•						FG-45000
Eco	250		•						FG-45015
EZ	250			•					FG-45100
Eco	500				•				FG-45200
<b>Y M C K O K</b>									
EZ	250		•						FG-45010
EZ	200			•					FG-45110
ECO	500				•				FG-45210
<b>Y M C K</b>									
	500					•			FG-84051
	750						•		FG-84911
	500							•	FG-84811
<b>Y M C K K</b>									
Eco	500				•				FG-45215
	500					•			FG-84052
	600						•		FG-84912
	500							•	FG-84812
<b>HDP Film</b>									
	1500					•			FG-84053
	1500						•		FG-84900
	1500							•	FG-84800
<b>Cleaning Kits</b>									
		•	•	•	•				FG-86177
						•			FG- 89200
							•		FG- 88933
								•	FG- 88933



# Standalone Access Control Units



**Keypad Prox**



**All-in-One Mullion**



**All-in-One Vandal**



**All-in-One Panel Mount**



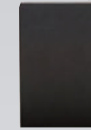
**Solo Mullion**



**Solo Vandal**



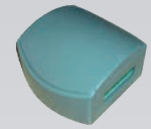
**Solo Panel Mount**



**Edge Evo**



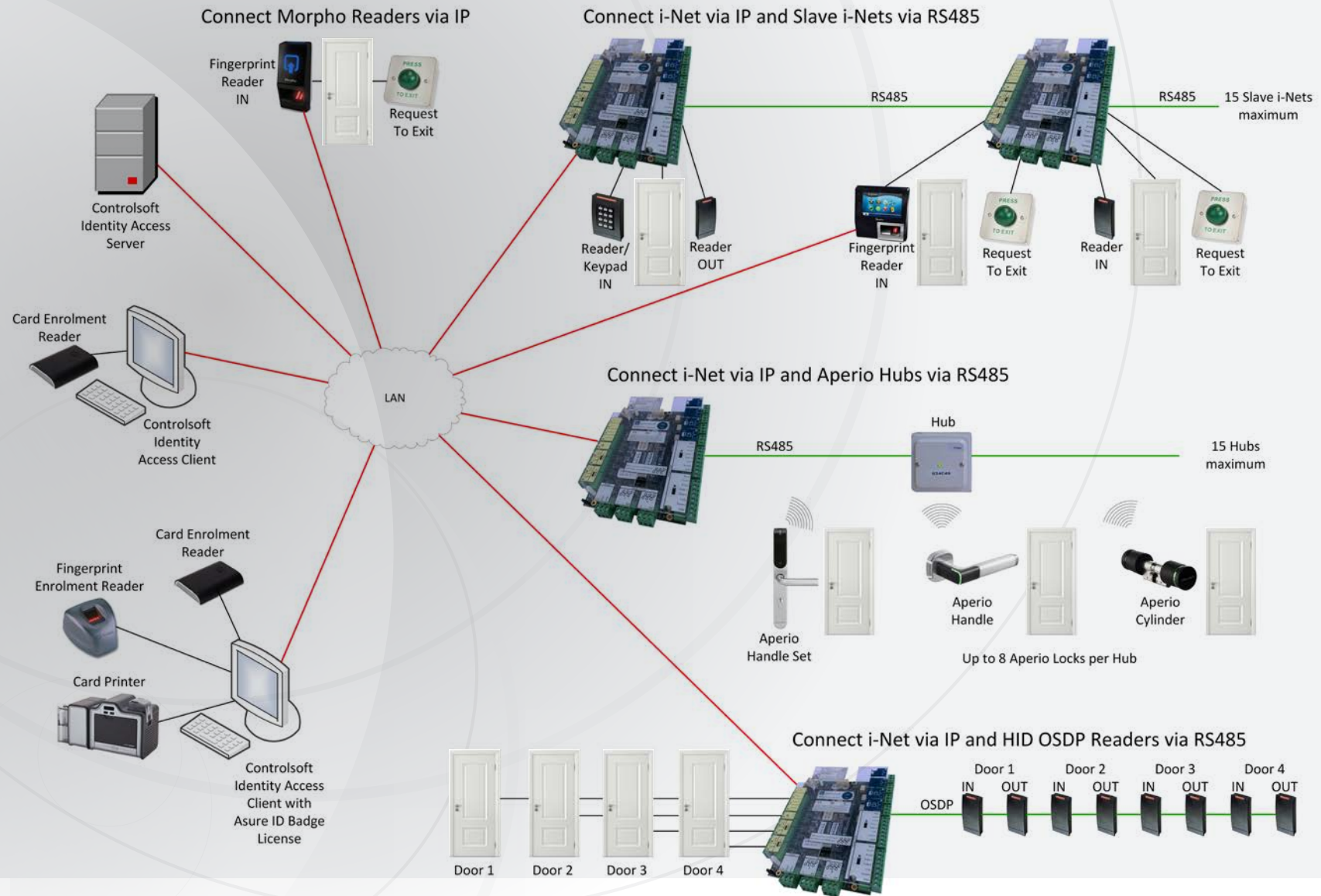
**Solo2**



**All-in-One RF Receiver**

	Keypad Prox	All-in-One Mullion	All-in-One Vandal	All-in-One Panel Mount	Solo Mullion	Solo Vandal	Solo Panel Mount	Edge Evo	Solo2	All-in-One RF Receiver
<b>Part Number</b>	CS-KP800	AC-3100	AC-3101	AC-3102	AC-3210	AC-3210-V	AC-3210-P	HID-83000	AC-3300	CS-AC-7200
<b>Max Number of Users</b>	1000	30	30	30	999	999	999	1000	2000	10 (unique)
<b>Max Number of Doors</b>	1	1	1	1	1	1	1	1	2	1
<b>Max Number of Readers</b>	1	1	1	1	2	2	2	2 / Wiegand	4 / Wiegand	N/A
<b>Prox Reader Included</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	N/A
<b>Master Card Programming</b>	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No
<b>Door Monitoring Alarm</b>	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	No
<b>Fire Alarm Input</b>	No	No	No	No	Yes	Yes	Yes	No	Yes	No
<b>Lock Relay Modes</b>	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse	Pulse	Pulse	Pulse	Pulse or Latch	Pulse or Latch
<b>Aux Relay for Alarm</b>	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	No
<b>Time Schedules</b>	No	No	No	No	No	No	No	8	No	No
<b>Access Event Log</b>	No	No	No	No	No	No	No	5000	No	No
<b>Web Browser Interface</b>	No	No	No	No	No	No	No	Yes	No	No
<b>Dimensions (mm)</b>	120 x 76 x 20	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	Cont: 150 x 100 x 30 Reader: 75 x 40 x 14	150 x 100 x 30 93 x 93 x 26	150 x 100 x 30 60 x 60 x 16	155 x 123 x 37	104 x 90 x 20	64 x 70 x 34
<b>Power Requirement</b>	12vdc 50mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12/24vdc 400mA	12/24vdc 400mA	12/24v 35mA
<b>Warranty</b>	1 Year	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	18 Months	2 Years	2 Years
<b>Cards / Tags</b>	Controlsoft Proximity							Dependant on Reader Type		868MHz RF Transmitter

# Identity Access Server / Client Configuration



# Experts in Access Control, focussed on Excellence

Controlsoft have over 25 years experience in the development, manufacture and distribution of Access Control Solutions.

We are experts in our industry sector and offer a comprehensive range of access control solutions that are not only price competitive but easy for both our partners to install and their end user customers to manage.

With over 10,000 systems in daily use around the world, we are reliable and committed to excellence in our products, customer service and support.

In addition to our own products, we distribute many third party products in order to deliver the complete solution to our partners. These include HID (Readers, Credentials and Fargo card printers), Allegion (Hand Readers), Idemia (Morpho Fingerprint Readers), Third Millennium (Readers) and Iris ID (Iris Readers).

Controlsoft believe in long term partnerships with both our Customers and Suppliers.

Please visit our website [www.controlsoft.com](http://www.controlsoft.com) for the most up-to-date datasheets and installation guides for all our products.

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